

ABSTRACT

This invention relates to a system for desalinating and purifying seawater. The system has a separably multilayer configuration and has devices including a top layer, a middle layer, a bottom layer and an outer cooling assembly and four units correspondingly arranged in those devices. The layers all have inner walls made of thermal-conductive and anti-corrosive material. The four units are a heating unit, a desalinating cracking unit, a purifying distillation and a cooling unit.